

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-25 (Cancelled).

26. (Currently amended) A fuel injector assembly comprising:
a seat assembly formed of a martensitic steel;
~~a plurality of components~~ an injector body formed of solenoid-quality stabilized ferritic stainless steel; and
a solenoid body formed of solenoid-quality stabilized ferritic stainless steel, wherein ~~at least two of said plurality of components~~ said injector body and said solenoid body are adjacent and are joined together by welding, wherein said stabilized ferritic stainless steel comprises, in terms of weight percentage, about 10% to about 35% chromium and at least one element selected from the group consisting of titanium and columbium, wherein each of said at least one element is present at no more than about 1.5 weight percent, wherein ~~said plurality of components includes an injector body and a solenoid body~~.

27. (New) A fuel injector assembly in accordance with Claim 26 wherein said stabilized ferritic stainless steel includes between 0.26 and 1.5 weight percent of titanium.

28. (New) A fuel injector assembly in accordance with Claim 26

wherein said stabilized ferritic stainless steel includes between 1.1 and 1.5 weight percent of columbium.

29. (New) An electric solenoid comprising a plurality of components formed of solenoid-quality stabilized ferritic stainless steel, wherein said stabilized ferritic stainless steel comprises, in terms of weight percentage, 21% to about 35% chromium and at least one element selected from the group consisting of titanium and columbium, and wherein each of said at least one element is present at no more than about 1.5 weight percent.

30. (New) An electric solenoid in accordance with Claim 29 wherein at least two of said plurality of components are adjacent and are joined together by welding.

31. (New) An electric solenoid in accordance with Claim 30 wherein said welding is carried out by laser fusion of said adjacent components.

32. (New) An electric solenoid in accordance with Claim 29 wherein said stabilized ferritic stainless steel includes between 31% and 35% weight percent of chromium.

33. (New) A fuel injector assembly comprising a plurality of components formed of solenoid-quality stabilized ferritic stainless steel, wherein at least two of said plurality of components are adjacent and are joined together by welding, wherein said stabilized ferritic stainless steel comprises, in terms of weight percentage, 21% to about 35% chromium and at least one element selected from the group consisting of titanium and columbium, and wherein each of said at least one element is present at no more than about 1.5 weight percent.

34. (New) A fuel injector in accordance with Claim 33 further comprising an electric solenoid actuator.

35. (New) A fuel injector assembly in accordance with Claim 34 wherein said solenoid-quality stabilized ferritic stainless steel is a free machining grade.

36. (New) A fuel injector assembly in accordance with Claim 35 wherein said free machine grade solenoid-quality stabilized ferritic stainless steel comprises chip-breaking inclusions.

37. (New) A fuel injector assembly in accordance with Claim 36 wherein said inclusions comprise sulfur and manganese.

38. (New) A fuel injector assembly in accordance with Claim 33
wherein said welding is carried out by laser fusion of said adjacent components.

39. (New) A fuel injector assembly in accordance with Claim 33
wherein said plurality of components includes an injector body.

40. (New) A fuel injector assembly in accordance with Claim 39
wherein said plurality of components further includes a solenoid body.

41. (New) A fuel injector assembly in accordance with Claim 40
further including a seat assembly formed of a martensitic stainless steel.

42. (New) A fuel injector assembly in accordance with Claim 33
wherein said stabilized ferritic stainless steel components exhibit soft magnetic
properties capable of carrying a magnetic flux.

43. (New) A fuel injector assembly including an electric solenoid
actuator, wherein said assembly comprises a fuel tube formed of an austenitic
stainless steel and an injector body formed of a stabilized ferritic stainless steel,
wherein said fuel tube and said injector body are joined together by welding,
wherein said stabilized ferritic stainless steel comprises, in terms of weight
percentage, 21% to about 35% chromium and at least one element selected from

the group consisting of titanium and columbium, and wherein each of said at least one element is present at no more than about 1.5 weight percent.

44. (New) A fuel injector assembly in accordance with Claim 43 further comprising a coil body formed of stabilized ferritic stainless steel.

45. (New) A fuel injector assembly comprising a plurality of components, wherein at least one of said plurality of components is formed of solenoid-quality stabilized ferritic stainless steel, wherein said stabilized ferritic stainless includes, in terms of weight percentage, about 10% to about 35% chromium and between 0.26 and 1.5 weight percent of titanium.

46. (New) A fuel injector assembly comprising a plurality of components, wherein at least one of said plurality of components is formed of solenoid-quality stabilized ferritic stainless steel, wherein said stabilized ferritic stainless includes, in terms of weight percentage, about 10% to about 35% chromium and between 1.1 and 1.5 weight percent of columbium.